

SYSTEM AND METHOD FOR DETERMINING REENTRANT VENTRICULAR  
TACHYCARDIA ISTHMUS AND SHAPE FOR CATHETER ABLATION

**ABSTRACT**

5 A method for identifying and localizing a reentrant  
circuit isthmus in a heart of a subject during sinus  
rhythm, including: a) receiving electrogram signals from  
the heart during sinus rhythm via electrodes; b) storing  
the electrogram signals; c) creating a map based on the  
electrogram signals; d) finding a center reference  
10 activation location on the map; e) defining measurement  
vectors originating from the center reference activation  
location; f) selecting from the measurement vectors a  
primary axis vector indicating a location of the  
reentrant circuit isthmus in the heart; g) finding  
15 threshold points of electrogram signals on the map; h)  
connecting the threshold points to form a polygon  
indicating a shape of the reentrant circuit isthmus in  
the heart.

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